

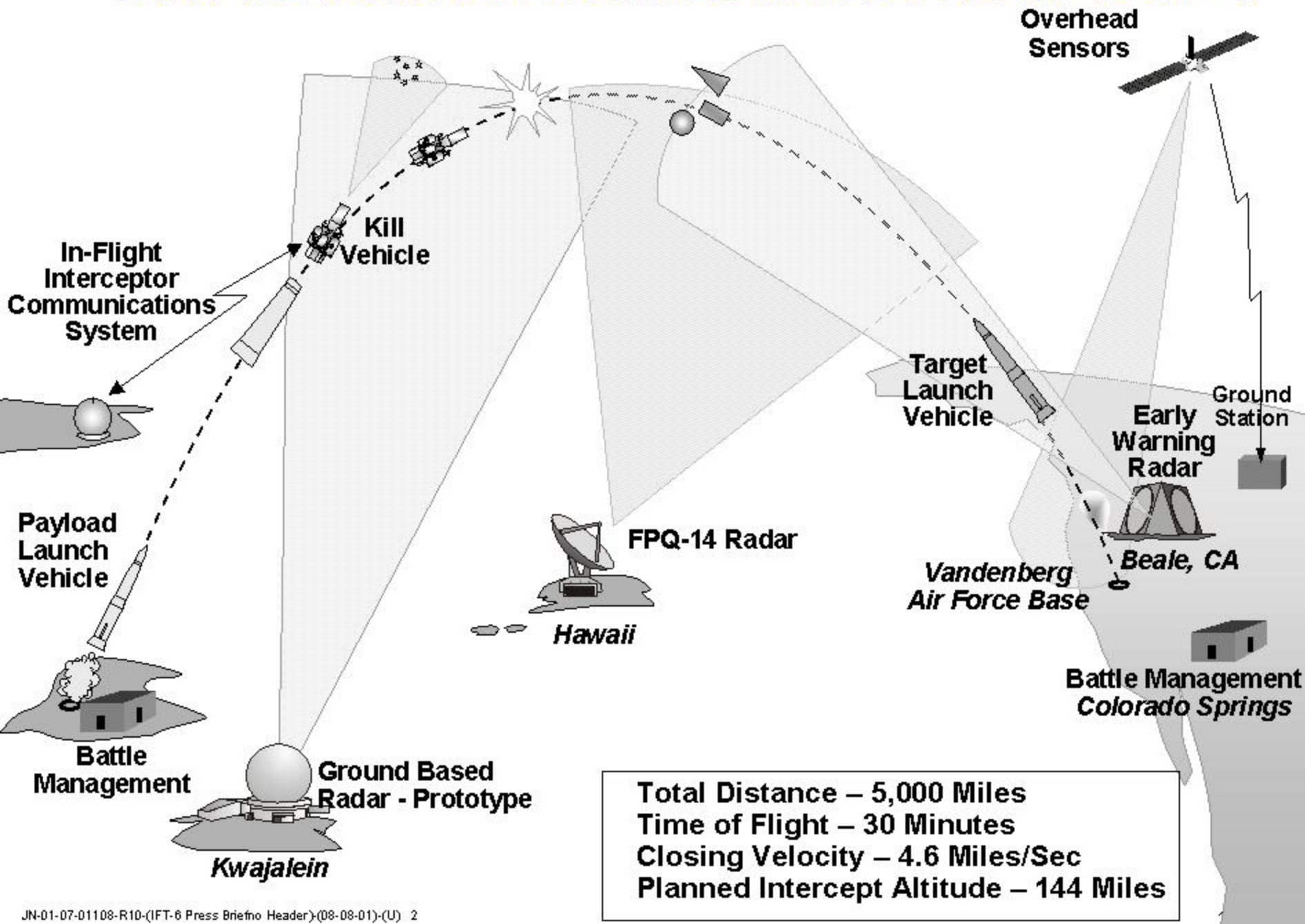
# **Integrated Flight Test - 6 Preliminary Results Press Briefing**



**9 August 2001**

**MG Willie B. Nance Jr., USA  
Program Executive Officer & System Program Director**

# HOW WE CONDUCTED INTEGRATED FLIGHT TEST - 6



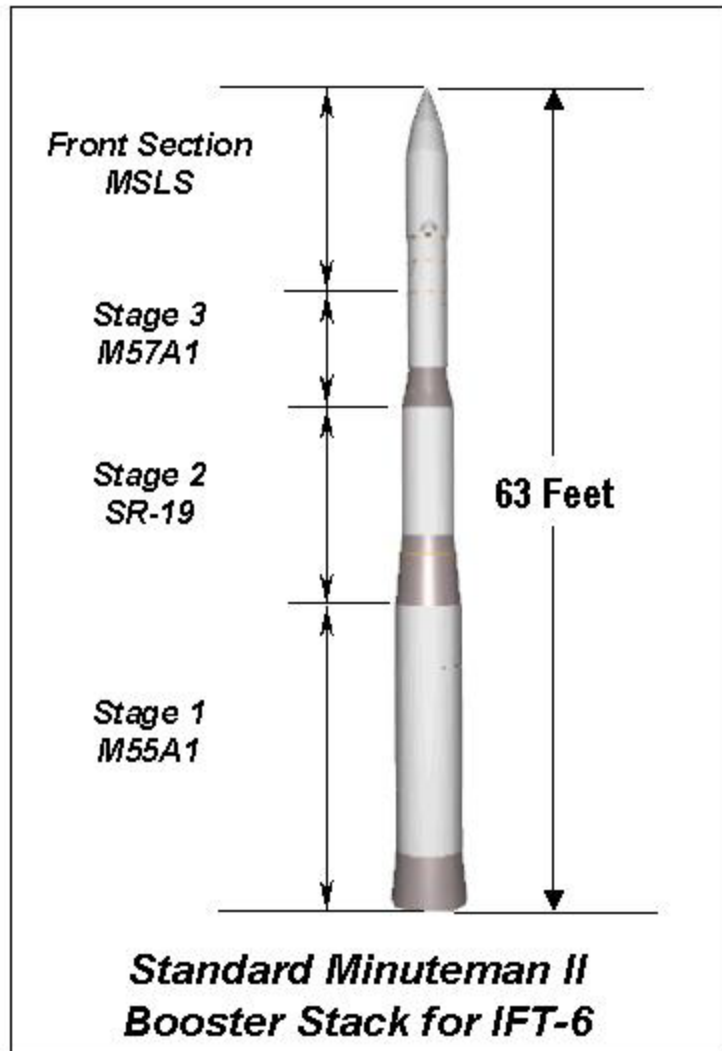
# WHY WE USE TEST SURROGATES

<b>ELEMENT/COMPONENT</b>	<b>TEST CONFIGURATION</b>
<b>Upgraded Early Warning Radar</b>	<b>Tracks Outbound Target Location Not Operationally Representative</b>
<b>FPQ-14 Radar</b>	<b>Surrogate Early Warning Radar Tracks C-Band Transponder Radar Not Operationally Representative</b>
<b>Ground Based Radar-Prototype</b>	<b>Smaller Than Operational Radar Location Not Operationally Representative</b>
<b>Payload Launch Vehicle</b>	<b>Two Stage Booster</b>
<b>Re-Entry Vehicle</b>	<b>Instrumented for Truth Data, Safety, and Telemetry</b>

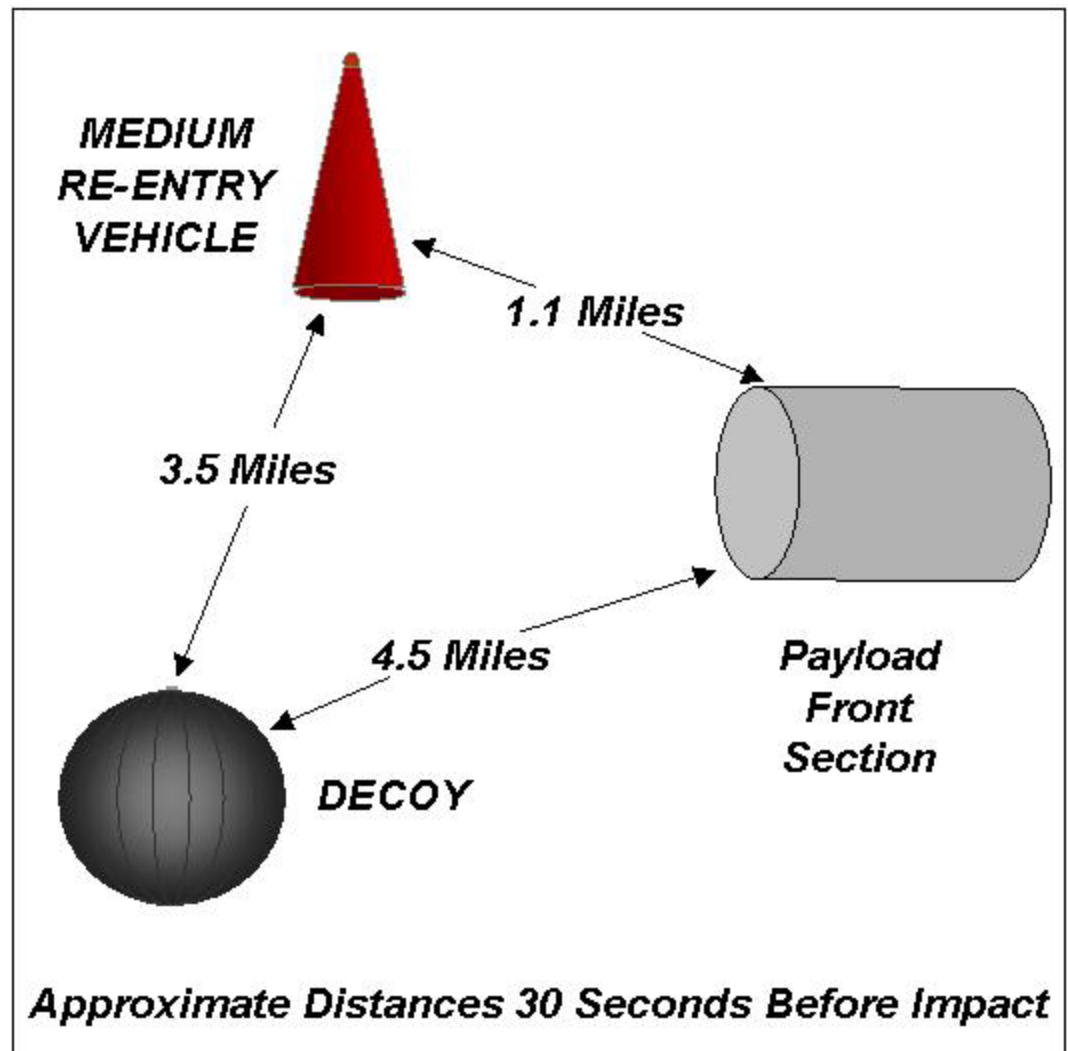
# WHY WE USE RANGE ASSETS

- **Safety**
- **Truth**
- **Contingency**

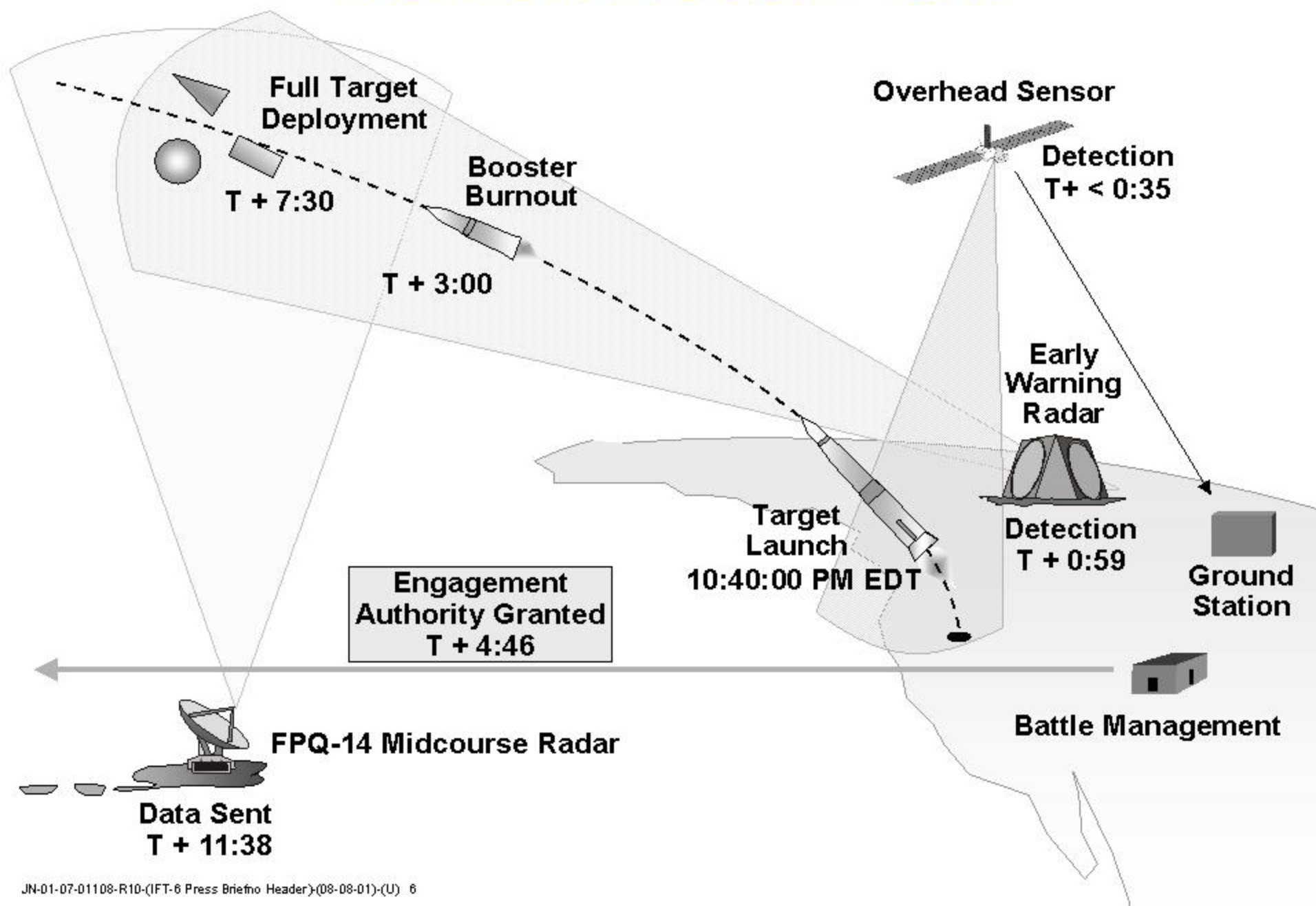
## TARGET LAUNCH VEHICLE



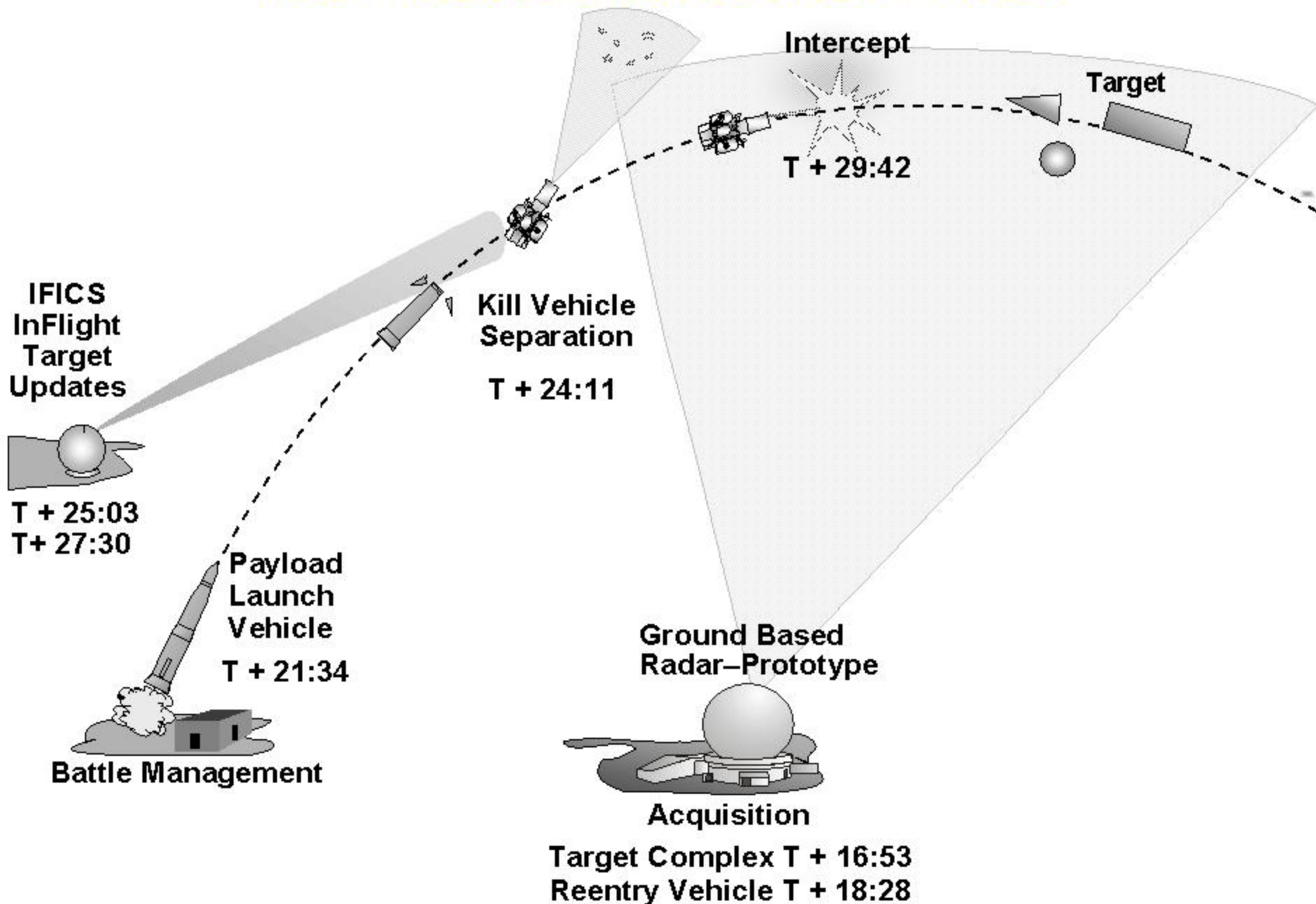
## TARGET CLUSTER



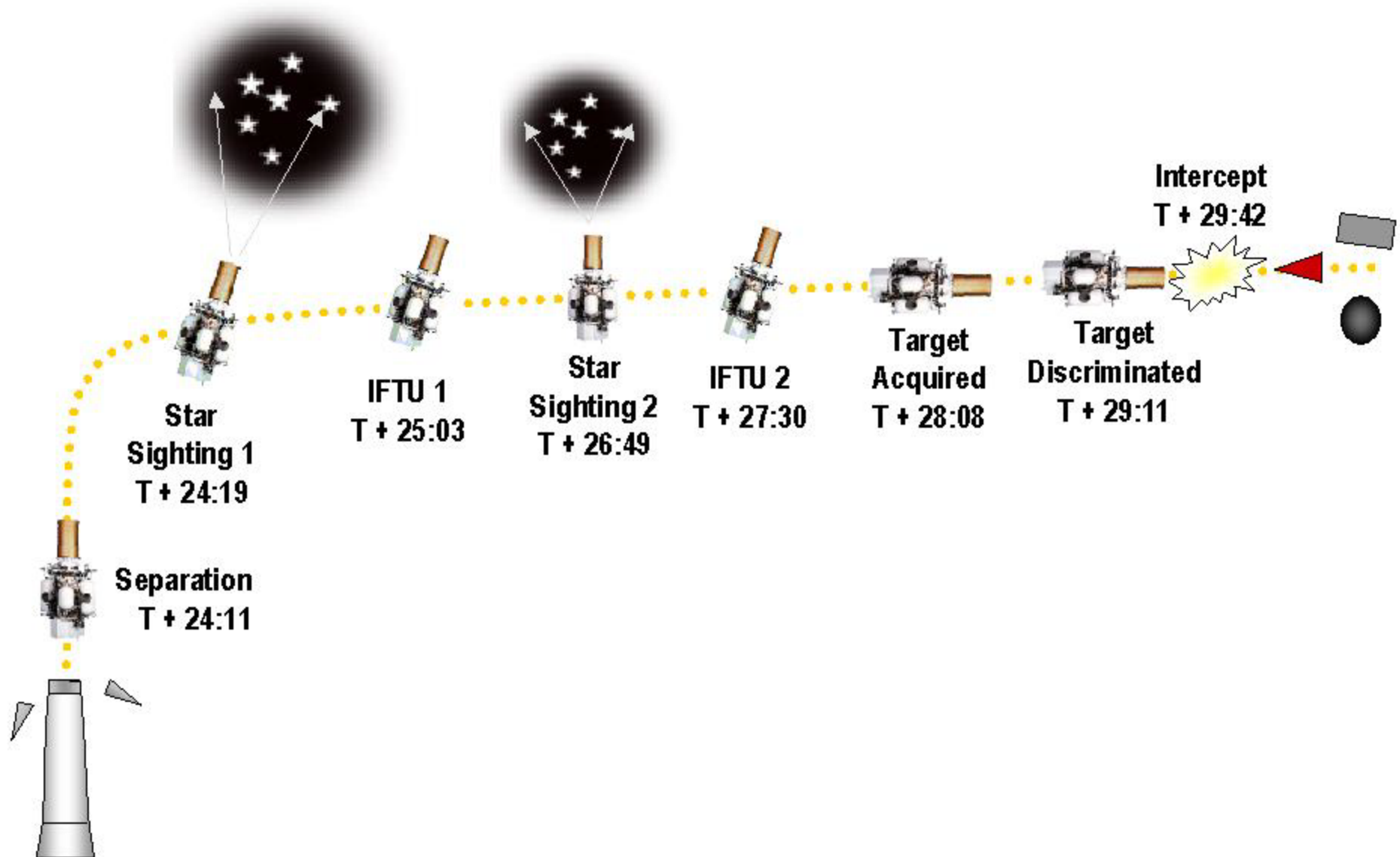
# TEST RESULTS BOOST PHASE

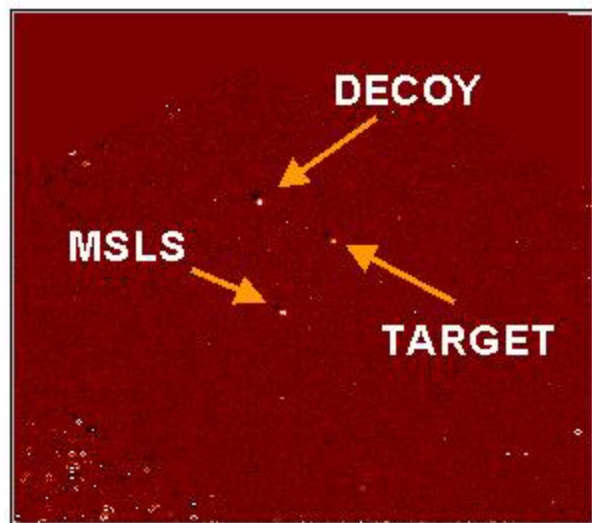


# TEST RESULTS MIDCOURSE PHASE

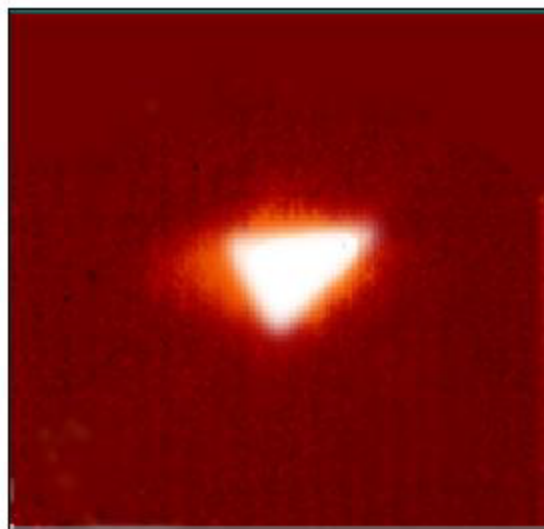


# KILL VEHICLE END GAME

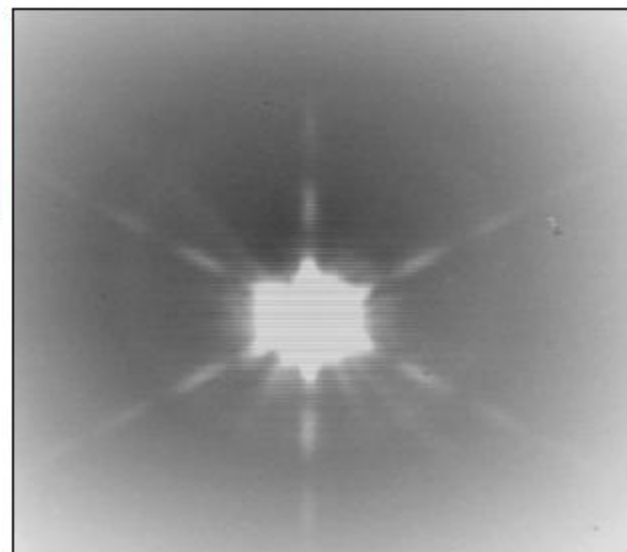




**AS SEEN BY KILL  
VEHICLE**



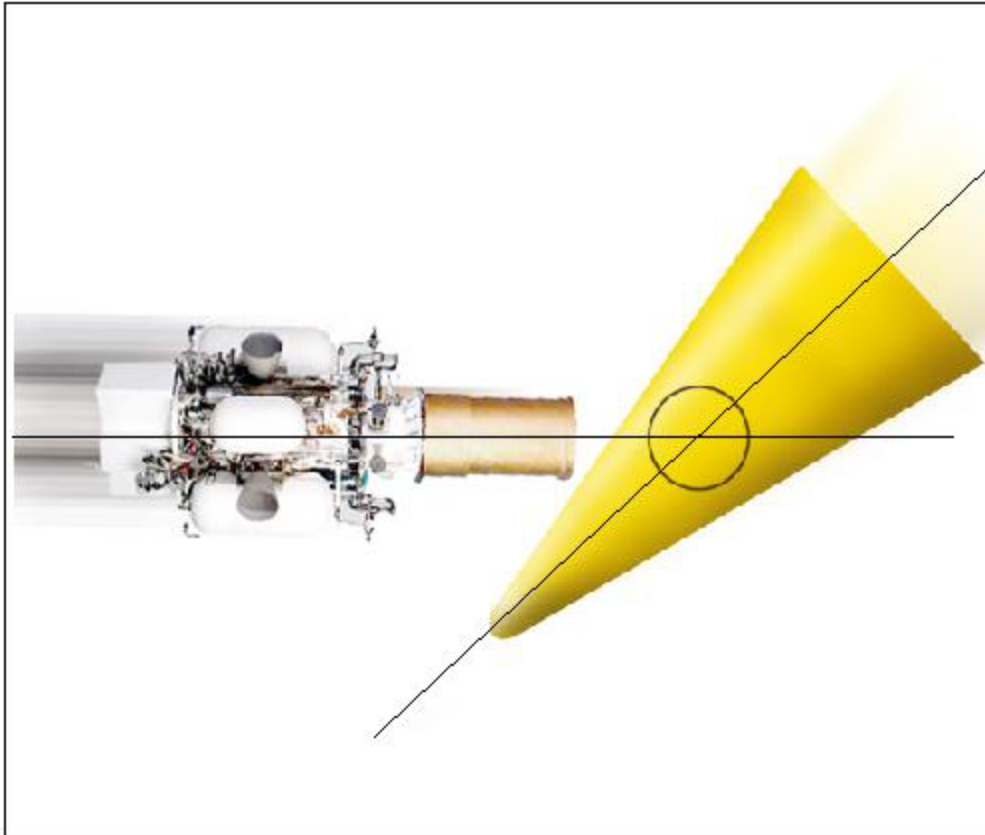
**LAST FRAME**



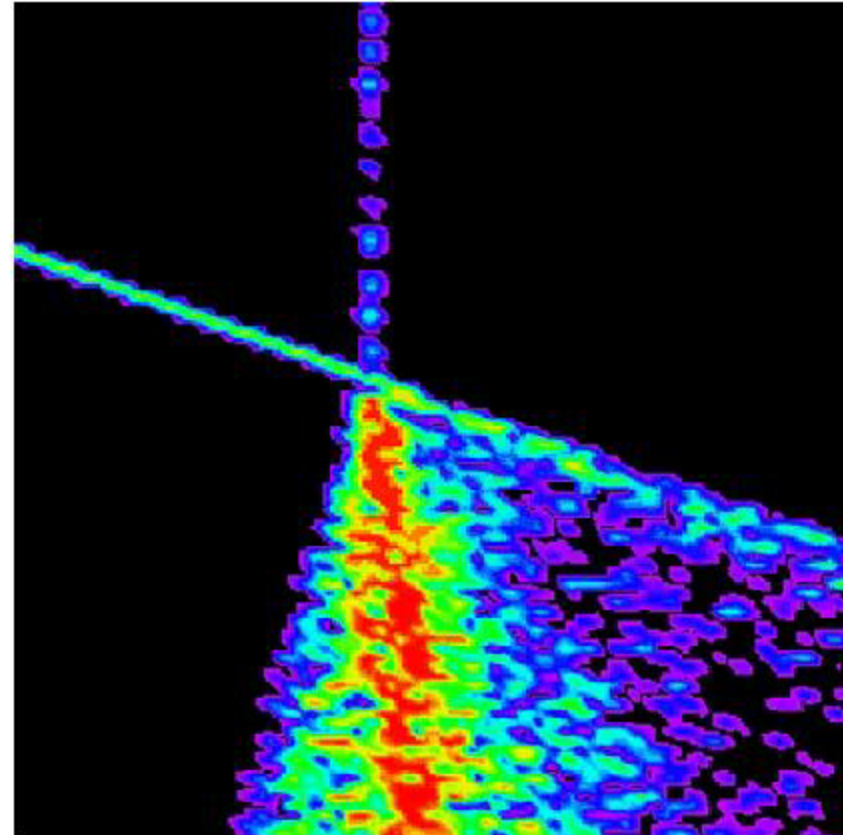
**INTERCEPT AS SEEN  
BY SUPER RADOT**

# INTERCEPT ACCURACY

## Point of Intercept



## Range Radar



**Preliminary Results Indicate IFT-6 Intercept a More Severe Impact Than IFT-3**

# INTEGRATED FLIGHT TEST- 6 OBJECTIVES SUMMARY

<b>OVERHEAD SENSOR</b>	
Detect	✓
Acquire	✓
Track	✓

<b>Ground Based Radar-Prototype</b>	
Detect	✓
Acquire	✓
Track	✓
Discriminate	✓
Hit Assess	○

<b>Battle Management</b>	
Communicate	✓
Integrated Engagement Planning	✓
Weapons Release Authority	✓
Human In Control	✓
In-Flight Interceptor Communications System	✓

<b>Early Warning Radar</b>	
Detect	✓
Acquire	✓
Track	✓

<b>Kill Vehicle</b>	✓
System	✓
Deployment	✓
Star Shots	✓
Acquisition	✓
Exercised Discrimination Algorithms	✓
Divert & Home	✓

<b>Integration of Elements</b>	✓
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# Ground Based Radar-Prototype Hit Assessment Solution

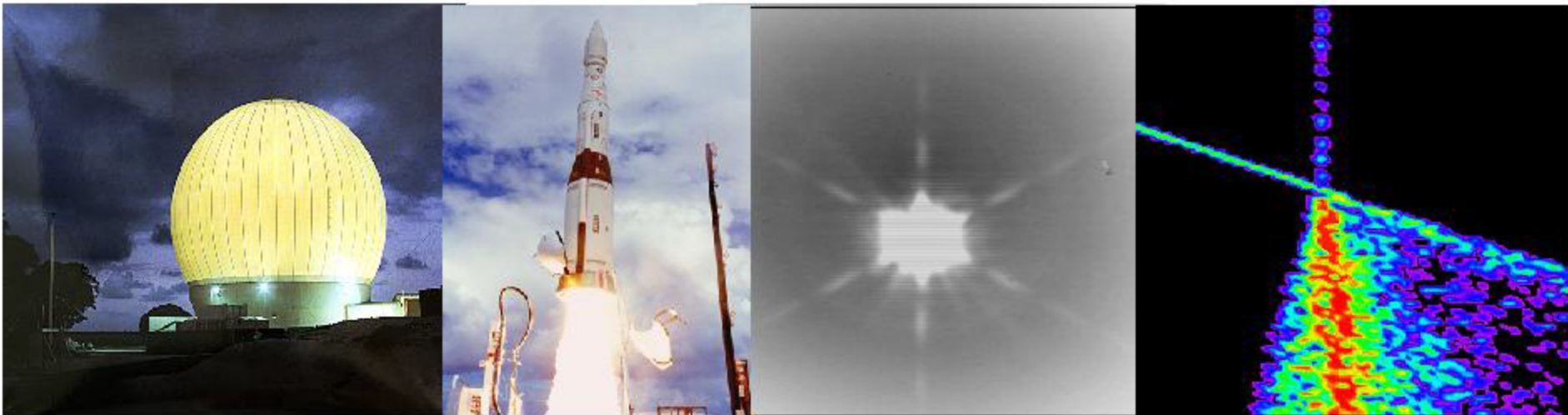
## Cause

## Remedy

- Software Attempted to Add and Delete the Same Track File in the Same Cycle
- Locked the Object Data Base
- Prevented Further Track Updates

- A Software Fix
- Allow Addition and Deletion of the Same Track File in the Same Cycle

# SUMMARY



- **A Successful Test**
- **Builds Confidence We Can Make System Work**
- **Will Fix Hit Assessment Software For Integrated Flight Test - 7**
- **Other Elements Performed As Expected – We Are Continuing To Improve Them**
- **Test Bed Improvements Required to Eliminate Test Surrogates**